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INTELLIGENCE MEMORANDUM

TRADE IN PETROLEUM BY THE SINO-SOVIET BLOC  
1956-60

CIA/RR IM 59-16

17 August 1959

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CENTRAL INTELLIGENCE AGENCY

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FOREWORD

The purpose of this intelligence memorandum is to bring up to date information pertaining to trade in petroleum by the Sino-Soviet Bloc which is contained in the following publications:  
CIA/RR

Information on trade in petroleum in 1956 included in these previous publications has been revised, data for 1957 and 1958 have been added, and forecasts for 1959 and 1960 have been made. In order to avoid double counting, trade data developed in this memorandum have been based on the export statistics of the Bloc.

Data contained in yearbooks and periodicals published by countries of the Sino-Soviet Bloc, in conjunction with data published by countries of the Free World concerning imports from countries of the Bloc, have supplied the factual basis for this memorandum. Soviet statistics were adjusted to allow for the fact that they include petroleum imported for reexport and petroleum procured abroad by Soviet foreign trade organizations for direct shipment to other countries.

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TRADE IN PETROLEUM BY THE SINO-SOVIET BLOC\*  
1956-60

Summary and Conclusions

Total exports of petroleum from the countries of the Sino-Soviet Bloc to all destinations, Bloc\*\* and Free World, increased from 14.8 million metric tons\*\*\* in 1956 to 22.9 million tons in 1958 and will be about 27.9 million tons in 1960. Until 1958, most of this trade was carried on within the Bloc. However, as a result of increased efforts of the Bloc to market petroleum in the Free World, exports by the Bloc to the Free World have increased steadily to the point where in 1958 they accounted for approximately 55 percent of total exports of petroleum from the countries of the Bloc. The willingness of the Bloc to accept commodities in payment for petroleum and to sell petroleum products to non-Communist countries at prices below the world average no doubt has played an important role in the expansion of trade between the Bloc and the Free World. Free Europe\*\*\*\* is by far the largest consumer in the Free World of petroleum from the Bloc. Certain countries of northern Europe, notably Finland and Iceland, and certain of the underdeveloped countries of the Middle East and Africa† are most dependent on petroleum imported from the Bloc.

A significant feature of trade in petroleum by the Bloc has been the steadily increasing quantity of crude oil in the total exports. During 1956-58, more than one-half of the increase in exports to the Free World was accounted for by the increase in exports of crude oil. The entire increase in intra-Bloc trade resulted from increases in intra-Bloc movements of crude oil.

Of the countries of the Bloc, the USSR is the principal exporter of petroleum. At the present time, about one-half of the amount exported by the USSR consists of crude oil, and about one-half consists

\* The estimates and conclusions in this memorandum represent the best judgment of this Office as of 1 June 1959.

\*\* When the word Bloc is used without qualification in this memorandum, it refers to the Sino-Soviet Bloc. It should be noted, however, that none of the Asiatic members of the Bloc exports petroleum; all are importers.

\*\*\* Tonnages are given in metric tons throughout this memorandum.

\*\*\*\* Including Turkey and all of Western Europe except Ireland and Spain.

† Afghanistan, Egypt, Syria, Algeria, Morocco, and Tunisia.

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of petroleum products. Production of crude oil in the USSR has been increasing more rapidly than has refining capacity. By 1965, Soviet exports of petroleum to the Free World and to the European Satellites probably will be largely crude oil. Exports of petroleum products to the Free World probably will be primarily diesel and residual fuel oils. Completion of a pipeline which is planned to run from the oil-fields of the Ural-Volga region to a new refinery at Polotsk and thence to the oil port at Klaipeda on the Baltic Sea will enable the USSR to make increasing quantities of petroleum available to the countries of northern Europe at competitive prices by 1965. Another pipeline will supply crude oil from the Ural-Volga region to new refineries being constructed in the European Satellites. In addition to supplying raw materials for new refineries and for expanded capacity at old refineries, crude oil from the USSR will enable East Germany and Czechoslovakia to continue converting synthetic refineries, now using coal as their raw material, to the processing of crude oil.

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I. Exports from the Bloc, 1956-58

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A. Products

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The estimated amount of petroleum exported from countries of the Sino-Soviet Bloc to all destinations, by type of product, during 1956-58 is shown in Table 1.\* Crude oil ranked first, in quantity, among individual petroleum commodities exported by the Bloc during 1956-58. It increased from almost 20 percent of the total exports of petroleum in 1956 to 35 percent in 1958. Gasoline was second and remained steady at almost 14 million tons a year. Diesel fuel, in third place for the 3-year period, surpassed gasoline in 1958 and accounted for 4.2 million tons, or 18 percent of the total exports of petroleum. The Bloc exported one-third more residual fuel oil in 1958 than in 1956.

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B. Origin

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Of the 56 million tons of petroleum exported from countries of the Bloc during 1956-58, 61 percent originated in the USSR, and 30 percent in Rumania. The rest was supplied by the other European Satellites, primarily Albania, East Germany, and Hungary, as shown in Table 2.\*\*

\* Table 1 follows on p. 3.

\*\* Table 2 follows on p. 4.

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Table 1

Exports of Petroleum from Countries of the Sino-Soviet Bloc  
by Type of Product a/  
1956-60

Product	Million Metric Tons				
	1956	1957	1958	1959	1960
Crude oil	2.9	5.4	8.1	N.A.	N.A.
Petroleum products					
Gasoline	3.9	3.9	3.8	N.A.	N.A.
Kerosine	1.8	1.5	2.3	N.A.	N.A.
Diesel fuel	2.8	3.5	4.2	N.A.	N.A.
Lubricants	0.3	0.3	0.3	N.A.	N.A.
Residual fuel	2.8	3.2	3.7	N.A.	N.A.
Others	0.3	0.4	0.5	N.A.	N.A.
Total	<u>11.9</u>	<u>12.8</u>	<u>14.8</u>	<u>N.A.</u>	<u>N.A.</u>
Grand total	<u>14.8</u>	<u>18.2</u>	<u>22.9</u>	<u>25.6</u>	<u>27.9</u>

a. For detailed information, see Appendix A.

II. Trade Between the Bloc and the Free World

A. Exports from the Bloc

Until 1958, more than one-half of the petroleum exported from countries of the Bloc went to other countries of the Bloc. This situation changed in 1958 when approximately 55 percent of the petroleum exported from countries of the Bloc went to the Free World. However, the value of the petroleum traded among countries of the Bloc remained greater than the value of that exported to the Free World, as shown in Table 3.\* This situation resulted from the fact that 55 percent of the shipments to countries of the Bloc consisted of relatively high-priced\*\*

\* Table 3 follows on p. 5.

\*\* Text continued on p. 6.

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Table 2

**Exports of Petroleum from Countries of the Sino-Soviet Bloc  
by Origin<sup>a/</sup>  
1956-60**

Year	Metric Tons	USSR		Rumania		Others		Total	
		Quantity (Million Metric Tons)	Value (Million US \$)						
1956	7.3	173.1	6.0	179.9	1.5	77.1	14.8	430.1	
1957	11.4	273.4	4.9	169.4	1.9	110.5	18.2	553.3	
1958	15.4	350.9	5.8	176.6	1.7	92.9	22.9	620.4	
1959	18.0	N.A.	6.0	N.A.	1.6	N.A.	25.6	693.4	
1960	20.0	N.A.	6.3	N.A.	1.6	N.A.	27.9	755.7	

<sup>a/</sup> For detailed information, see Appendix A. Value is calculated on the basis of average world prices, f.o.b. (free on board) Gulf of Mexico for petroleum products and f.o.b. eastern Mediterranean for crude oil.

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Table 3  
Exports of Petroleum from Countries of the Sino-Soviet Bloc  
by Destination a/  
1956-60

Year	Bloc		Free World		Total	
	Quantity (Million Metric Tons)	Value (Million US \$)	Quantity (Million Metric Tons)	Value (Million US \$)	Quantity (Million Metric Tons)	Value (Million US \$)
1956	8.3	258.3	6.5	171.8	14.8	430.1
1957	9.5	326.3	8.7	227.0	18.2	553.3
1958	10.4	335.5	12.5	284.9	22.9	620.4
1959	11.7	375.5	13.9	317.9	25.6	693.4
1960	12.9	412.7	15.0	343.0	27.9	755.7

a. For detailed information, see Appendix A. b. Value is calculated on the basis of average world prices, f.o.b. (free on board) Gulf of Mexico for petroleum products and f.o.b. eastern Mediterranean for crude oil.

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products such as gasoline, kerosine, and diesel fuel, whereas 63 percent of the shipments to the Free World were relatively low-priced crude oil and residual fuel.

The increased efforts of the Bloc to market petroleum in the Free World first became evident in 1954 when the quantity of petroleum exported to the Free World increased to 2.6 times that exported in 1953 and the value increased to 2.8 times. By 1958 the quantity of petroleum exported from the Bloc to the Free World had increased to 6.7 times that exported in 1953, and the value had increased to 7.5 times. Between 1956 and 1958, more than one-half the increase in exports to the Free World was accounted for by crude oil and more than 40 percent by diesel fuel and residual fuel. The increase in the amount of petroleum exported to the Free World was partly the result of the willingness of the Bloc to accept commodities in payment for petroleum. In 1958 the Bloc evidenced for the first time a willingness to sell petroleum to the Free World at less than average world prices.

B. Imports by the Bloc

Petroleum imported by the Bloc from the Free World amounted to 3.8 million tons during 1956-58, only partly offsetting exports to the Free World, which amounted to 27.7 million tons during the same period. About 3.5 million tons of crude oil and 255,000 tons of petroleum products were delivered by Austria to Czechoslovakia, East Germany, Hungary, and Poland. In addition, about 15,000 tons of petroleum products were delivered to the European Satellites by West Germany. The crude oil was shipped under provisions of the peace treaty signed with Austria in 1955. Under the treaty, Austria regained control of its oil industry but was obliged to pay reparations to the USSR in the form of 1 million tons of crude oil a year for 10 years. This crude oil is delivered to the European Satellites on Soviet account.

C. Significance

Of the 25 countries of the Free World which import petroleum from the Bloc, only Afghanistan, Iceland, Finland, the United Arab Republic,\* and Yugoslavia were dependent on the Bloc for more than 30 percent of their supplies during 1956-58. Only 6 percent of the

\* Including Egypt and Syria only.

supplies of petroleum in all the countries of the Free World importing from the Bloc were furnished by the Bloc. Free Europe received three-quarters of the petroleum shipped to the Free World by the Bloc during 1956-58. Most of the remainder was shipped to the Middle East and North Africa. In 1958, shipments were made to Latin America\* for the first time since 1955. Two-thirds of the 27.7 million tons of petroleum exported by the Bloc to the Free World during 1956-58 were destined for Egypt, Finland, Italy, West Germany, France, and Sweden.

Nearly seven-eighths of the petroleum exported from the Bloc to the Free World during 1956-58 was shipped from the Black Sea by oceangoing tankers. The rest was shipped by rail, inland waterway, and small tankers on the Baltic Sea.

### III. Intra-Bloc Trade

Intra-Bloc trade increased steadily during 1953-58 but at a slower rate than did trade between the Bloc and the Free World. In 1953, trade in petroleum within the Bloc amounted to 7.3 million tons, valued at US \$237 million. In 1956 this trade had increased 15 percent in quantity, but the value had increased only 9 percent. The fact that the value of the trade in petroleum did not increase as the quantity increased was caused principally by the increased proportion of relatively inexpensive crude oil in the total amount of petroleum traded within the Bloc. The increased demand by the European Satellites for crude oil was the result of expanding refining capacity in the Satellites and conversion of East German and Czechoslovak synthetic refineries, which used coal as their raw material, to process crude oil. Such conversion was occasioned by the greater availability and desirability of crude oil as a raw material. Areas lacking petroleum find it less expensive to import and process crude oil rather than to import the more costly petroleum products for consumption. After 1956, because of the increased prices of crude oil, residual fuel oil, and lubricants, the value of intra-Bloc trade increased more than did the quantity. By 1958, both the quantity and value of the petroleum traded among the countries of the Bloc had increased by 42 percent compared with the quantity and value of trade in 1953.

### IV. Future Trends

#### A. Trade Between the Bloc and the Free World

Shipments of petroleum by the Bloc to the Free World are expected to continue to increase but at a slower rate than the average

\* Including Argentina and Uruguay only.

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annual rate of about 41 percent achieved during 1953-58. As the exportable surplus of petroleum in the Bloc increases, exports to the Free World will increase to about 15 million tons in 1960. Crude oil will gradually account for a larger percentage of the petroleum exported and may reach 50 percent of the total in 1960. By 1965, exports of petroleum products, except for diesel and residual fuel oils, probably will be almost eliminated.

Increasing competition in certain countries, notably France and Italy, and in South America may limit sales of petroleum by the Bloc to the Free World. The extensive exploration in the Sahara Desert by the French has met with considerable success. As these deposits are developed, the need of France to import petroleum from the Bloc will decline. The Franco-Soviet trade agreement for 1960-62 anticipates a gradual decrease in imports of oil from the USSR. Exploitation of known deposits in Libya, Sicily, the Sinai Peninsula, and South America will reduce the need of Italy, Brazil, Argentina, and other countries to import petroleum from the Bloc.

Most of the expansion in trade in petroleum with the Bloc probably will take place with countries of northern Europe, such as Norway, Sweden, Denmark, Finland, and Iceland. The prospects for major oil strikes in these countries are very limited, and, with completion of the oil pipeline to supply the new oil port at Klaypeda, more Soviet petroleum will be available at competitive world prices. Shipments of petroleum from the Bloc to the United Arab Republic and probably to other areas of Africa will increase, although the increase will be small compared with the increase in shipments to northern Europe. In spite of these increases, the countries of the Free World importing from the Bloc still will be receiving less than 10 percent of their petroleum from the Bloc in 1960.

#### B. Intra-Bloc Trade

The annual rate of increase in intra-Bloc trade during 1958-60 is expected to rise to about 11 percent, compared with a little more than 7 percent during 1953-58. By 1960, total intra-Bloc trade in petroleum will reach 13 million tons, of which at least 50 percent will be crude oil. Because increases of production in the Bloc, with the exception of the USSR, will not keep pace with increasing consumption, it will be necessary for all the Satellites except Rumania to increase imports of petroleum. Completion of a pipeline system from the USSR to the European Satellites by 1965 will enable the USSR to supply refineries in the Satellites with required crude oil. By 1965, intra-Bloc trade in petroleum will reach approximately 20 million tons,

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most of which will be crude oil to supply increased refining capacity in the European Satellites. The rest will be in the form of shipments of petroleum to Communist China.

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## APPENDIX A

### STATISTICAL DATA

Summaries of the exports of petroleum from the countries of the Sino-Soviet Bloc are shown in Tables 1 through 3.\* Exports from the Bloc to the Free World, by product, origin, and destination, are shown in Tables 4 through 6.\*\* Exports from some countries of the Bloc to other countries of the Bloc, by product, origin, and destination, are shown in Tables 7 through 9.\*\*\* A comparison of consumption in the Free World with imports from the Bloc is shown in Table 10.\*\*\*\* The means of transporting petroleum from the Bloc to the Free World are shown in Table 11.\*\*\*\*\* Details of the trade of individual countries of the Bloc are shown in Tables 12 through 46.+

\* Pp. 3, 4, and 5, respectively, above.

\*\* Pp. 12 through 14, below.

\*\*\* Pp. 15 through 17, below.

\*\*\*\* P. 18, below.

+ Pp. 19 through 46, below.

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Table 4  
Exports of Petroleum from Countries of the Sino-Soviet Bloc  
to the Free World, by Type of Product <sup>a/</sup>  
1956-60

Product	Thousand Metric Tons			
	1956	1957	1958	1959
Crude oil	1,371	2,023	4,390	N.A.
Gasoline	683	902	756	N.A.
Kerosine	695	594	1,122	N.A.
Diesel fuel	1,406	2,214	2,668	N.A.
Lubricants	16	57	40	N.A.
Residual fuel	2,171	2,833	3,411	N.A.
Others	198	55	83	N.A.
<b>Total b/</b>	<b>6,540</b>	<b>8,678</b>	<b>12,470</b>	<b>13,900</b>
				<b>15,000</b>

- a. For detailed information on quantity, see Tables 12 through 46, pp. 19 through 46, below.  
 b. The value of the total exports, in US dollars, is as follows: in 1956, 171.8 million; in 1957, 227.0 million; in 1958, 284.9 million; in 1959, 317.9 million; in 1960, 343.0 million.

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Table 5

Exports of Petroleum from Countries of the Sino-Soviet Bloc  
to the Free World, by Country of Origin a/  
1956-60

Year	USSR			Other Soviet Bloc			Other Bloc			Total
	Quantity (Million Metric Tons)	Value (Million US \$)	Quantity (Million Metric Tons)							
1956	4.3	195.2	1.6	39.3	0.6	0.6	37.3	6.5	171.8	
1957	6.4	158.2	1.5	42.9	0.8	0.8	25.9	8.7	227.0	
1958	9.4	201.7	2.1	53.0	1.0	1.0	30.2	12.5	284.9	
1959	11.0	N.A.	2.0	N.A.	0.9	0.9	N.A.	13.9	317.9	
1960	12.0	N.A.	2.1	N.A.	0.9	0.9	N.A.	15.0	343.0	

a. For detailed information on quantity, see Tables 12 through 46, pp. 19 through 46, below. Value is calculated on the basis of average world prices, f.o.b. (free on board) Gulf of Mexico for petroleum products and f.o.b. eastern Mediterranean for crude oil.

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Table 6

Exports of Petroleum from Countries of the Sino-Soviet Bloc  
to the Free World, by Destination a/  
1956-60

Year	Free Europe		Middle East and Africa		Latin America		Total	
	Quantity (Million Metric Tons)	Value (Million US \$)						
1956	4.8	134.5	11.7	37.3	0	0	6.5	171.8
1957	7.0	182.6	11.7	44.4	0	0	8.7	227.0
1958	8.5	197.6	2.7	58.8	1.3	28.5	12.5	284.9
1959	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	13.9	317.9
1960	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	15.0	343.0

a. For detailed information on quantity, see Tables 12 through 46, pp. 19 through 46, below. Value is calculated on the basis of average world prices, f.o.b. (free on board) Gulf of Mexico for petroleum products and f.o.b. eastern Mediterranean for crude oil.

Table 7

Exports of Petroleum from Countries of the Sino-Soviet Bloc  
to Other Countries of the Bloc, by Type of Product <sup>a/</sup>  
1956-60

Product	Thousand Metric Tons			
	1956	1957	1958	1959
Crude oil (Sino-Soviet)	1,576	3,361	3,666	N.A.
Gasoline	3,178	2,906	3,098	N.A.
Kerosine	1,077	955	1,169	N.A.
Diesel fuel	1,410	1,287	1,514	N.A.
Lubricants	289	278	294	N.A.
Residual fuel	612	1339	289	N.A.
Others	169	1367	404	N.A.
Total b/	8,342	9,468	10,434	11,700
	(1956-57)	(1958)	(1959)	(1960)

a. For detailed information on quantity, see Tables 12 through 46, pp. 19 through 46, below.

b. The value of the total exports, in US dollars, is as follows: in 1956, 258.3 million; in 1957, 326.3 million; in 1958, 335.5 million; in 1959, 375.5 million; in 1960, 412.7 million.

Table 8

Exports of Petroleum from Countries of the Sino-Soviet Bloc  
 to Other Countries of the Bloc, by Country of Origin a/  
 1956-60

Year	USSR			Romania			Other Bloc			Total		
	Quantity (Million Metric Tons)	Value (Million US \$)										
1956	3.0	77.9	4.4	140.6	0.9	39.8	6.3	258.3				
1957	5.0	115.2	3.4	126.5	1.1	84.6	9.5	326.3				
1958	6.0	149.2	3.7	123.6	0.7	62.7	10.4	335.5				
1959	7.0	N.A.	4.0	N.A.	0.7	N.A.	11.7	375.5				
1960	8.0	N.A.	4.2	N.A.	0.7	N.A.	12.9	412.7				

a. For detailed information on quantity, see Tables 12 through 46, pp. 19 through 46, below. Value is calculated on the basis of average world prices, f.o.b. (free on board) Gulf of Mexico for petroleum products and f.o.b. eastern Mediterranean for crude oil.

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Table 9

Exports of Petroleum from Countries of the Sino-Soviet Bloc  
to Other Countries of the Bloc, by Destination <sup>a/</sup>  
1956-60

Year	USSR		European Satellites		Asiatic Satellites		Total
	Quantity (Million Metric Tons)	Value (Million US \$)	Quantity (Million Metric Tons)	Value (Million US \$)	Quantity (Million Metric Tons)	Value (Million US \$)	
1956	3.4	120.9	3.1	87.2	1.8	50.2	8.3
1957	2.4	112.1	5.2	154.1	1.9	60.1	9.5
1958	2.3	93.3	5.6	167.9	2.5	74.3	10.4
1959	2.2	N.A.	6.8	N.A.	2.7	N.A.	11.7
1960	2.0	N.A.	7.7	N.A.	3.2	N.A.	12.9

<sup>a.</sup> For detailed information on quantity, see Tables 12 through 46, pp. 19 through 46, below. Value is calculated on the basis of average world prices, f.o.b. (free on board) Gulf of Mexico for petroleum products and f.o.b. eastern Mediterranean for crude oil.

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Table 10

Comparison of Consumption of Petroleum in the Free World  
with Imports from the Sino-Soviet Bloc  
1956-58

Area	Year	Consumption a/	Million Metric Tons	
			Imports	Imports as Percent of Consumption
Free Europe	1956	126.5	4.8	3.8
	1957	127.5	7.0	5.5
	1958	141.1	8.5	6.0
Middle East and Africa	1956	8.6	1.7	19.8
	1957	7.8	1.7	21.8
	1958	7.9	2.7	34.2
Latin America	1956	13.4	0	0
	1957	14.0	0	0
	1958	14.6	1.3	8.9
Total	1956	148.5	6.5	4.4
	1957	149.3	8.7	5.8
	1958	163.6	12.5	7.6

a. Including only the estimates of consumption of those countries in each area which imported petroleum from the Bloc during 1956-58.

Table 11

Means of Transport of Petroleum from the Sino-Soviet Bloc  
to the Free World  
1956-58

Means of Transport	Percent of Total Shipped		
	1956	1957	1958
Free World tankers	75	43	41
Soviet tankers	17	40	45
Other means	8	17	14
Total	100	100	100

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Table 12  
 Exports of Petroleum from the USSR, by Type of Product  
 1956-58 and 1959-60 Plan

Product	Exports in Thousand Metric Tons 1956 a/	Exports in Thousand Metric Tons		
		1957 a/	1958 a/	1959
Crude oil	2,510	4,911	7,712	N.A.
Gasoline	1,157	1,187	1,260	N.A.
Kerosine	548	652	1,231	N.A.
Diesel fuel	1,584	2,242	2,464	N.A.
Lubricants	143	169	190	N.A.
Residual fuel	1,276	2,293	2,536	N.A.
Others	24	31	54	N.A.
Total	7,242	11,485	15,447	<u>18,000</u>
a.				<u>20,000</u>

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Table 13

Exports of Petroleum from the USSR, by Country of Destination  
1956-58 and 1959-60 Plan

Destination	Thousand Metric Tons			
	1956 a/	1957 a/	1958 a/	1960
Sino-Soviet Bloc				
Albania	5	7	22	N.A.
Bulgaria	154	281	365	N.A.
Czechoslovakia	368	951	1,132	N.A.
East Germany	459	831	978	N.A.
Hungary	31	695	794	N.A.
Poland	198	474	533	N.A.
Rumania	4	1	0	N.A.
Communist China	1,732	1,785	2,200	N.A.
North Vietnam	0	18	0	N.A.
Total	<u>2,251</u>	<u>5,043</u>	<u>6,024</u>	<u>7,000</u>
Free World				
Free Europe	3,082	5,116	6,082	N.A.
Middle East and Africa	1,209	1,326	2,243	N.A.
Latin America	0	0	1,098	N.A.
Total	<u>4,291</u>	<u>6,442</u>	<u>9,243</u>	<u>11,000</u>
Grand total	<u>7,242</u>	<u>11,485</u>	<u>15,447</u>	<u>20,000</u>
a.				

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Table 14

Imports of Petroleum by the USSR, by Type of Product  
1956-58 and 1959-60 Plan

Product	Thousand Metric Tons				
	1956 a/	1957 a/	1958 a/	1959	1960
Crude oil	93	170	55	N.A.	N.A.
Gasoline	1,791	1,516	1,435	N.A.	N.A.
Kerosine	505	346	287	N.A.	N.A.
Diesel fuel	444	51	228	N.A.	N.A.
Lubricants	105	98	63	N.A.	N.A.
Residual fuel	356	10	60	N.A.	N.A.
Others	126	229	155	N.A.	N.A.
Total	3,420	2,420	2,283	2,200	2,000

a.

Table 15

Imports of Petroleum by the USSR, by Country of Origin  
1956-58 and 1959-60 Plan

A. Origin	Thousand Metric Tons				
	1956 a/	1957 a/	1958 a/	1959	1960
Albania	161	324	146	N.A.	N.A.
East Germany	228	235	137	N.A.	N.A.
Hungary	28	34	0	N.A.	N.A.
Rumania	3,003	1,827	2,000	N.A.	N.A.
Total	3,420	2,420	2,283	2,200	2,000

a.

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Table 16

Exports of Petroleum from Albania, by Type of Product a/  
1956-58 and 1959-60 Plan

Product	1956	1957	1958	1959	1960
Crude oil	145	220	130	N.A.	N.A.
Asphalt	70	171	180	N.A.	N.A.
Total	<u>215</u>	<u>391</u>	<u>310</u>	<u>355</u>	<u>400</u>

a.

Table 17

Exports of Petroleum from Albania, by Country of Destination a/  
1956-58 and 1959-60 Plan

Destination	1956	1957	1958	1959	1960
Sino-Soviet Bloc					
USSR	161	324	146	N.A.	N.A.
Bulgaria	1	7	31	N.A.	N.A.
Czechoslovakia	0	5	0	N.A.	N.A.
East Germany	0	0	7	N.A.	N.A.
Hungary	1	5	3	N.A.	N.A.
Poland	52	50	84	N.A.	N.A.
Rumania	0	0	30	N.A.	N.A.
Total	<u>215</u>	<u>391</u>	<u>301</u>	<u>345</u>	<u>350</u>
Free World					
Egypt	0	0	3	N.A.	N.A.
Italy	0	0	5	N.A.	N.A.
Others	0	0	1	N.A.	N.A.
Total	0	0	9	10	50
Grand total	<u>215</u>	<u>391</u>	<u>310</u>	<u>355</u>	<u>400</u>

a.

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Table 18

Imports of Petroleum by Albania, by Type of Product a/  
1956-58 and 1959-60 Plan

Product	Thousand Metric Tons				
	1956	1957	1958	1959	1960
Gasoline	17	10	16	N.A.	N.A.
Kerosine	2	5	9	N.A.	N.A.
Diesel fuel	31	12	12	N.A.	N.A.
Lubricants	1	3	6	N.A.	N.A.
Total	51	30	43	45	45

a.

Table 19

Imports of Petroleum by Albania, by Country of Origin a/  
1956-58 and 1959-60 Plan

Origin	Thousand Metric Tons				
	1956	1957	1958	1959	1960
USSR	5	7	22	N.A.	N.A.
Rumania	46	23	21	N.A.	N.A.
Total	51	30	43	45	45

a.

Table 20

Exports of Petroleum from Bulgaria, by Type of Product a/  
1956-58 and 1959-60 Plan

Product	Thousand Metric Tons				
	1956	1957	1958	1959	1960
Crude oil	182	152	134	N.A.	N.A.
Fuel oil	8	63	30	N.A.	N.A.
Total	190	215	164	150	150

a.

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Table 21

Exports of Petroleum from Bulgaria, by Country of Destination a/  
1956-58, and 1959-60 Plan

Destination	Thousands Metric Tons			
	<u>1956</u>	<u>1957</u>	<u>1958</u>	<u>1959</u>
<b>Sino-Soviet Bloc</b>				
Czechoslovakia	78	17	10	N.A.
East Germany	35	0	0	N.A.
Hungary	45	88	100	N.A.
Poland	24	7	0	N.A.
Total	<u>182</u>	<u>112</u>	<u>110</u>	<u>100</u>
<b>Free World</b>				
Austria	3	27	19	N.A.
France	0	32	0	N.A.
Greece	5	8	4	N.A.
Italy	0	23	23	N.A.
West Germany	0	5	0	N.A.
Yugoslavia	0	8	8	N.A.
Total	<u>8</u>	<u>103</u>	<u>54</u>	<u>50</u>
Grand total	<u>190</u>	<u>215</u>	<u>164</u>	<u>150</u>

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Table 22

Imports of Petroleum by Bulgaria, by Type of Product &  
1956-58 and 1959-60 Plan<sup>a</sup>

Product	1956/58	1957	1958	1959	1960	Thousands Metric Tons
Gasoline	165	177	189	N.A.	N.A.	
Kerosine	76	84	98	N.A.	N.A.	
Diesel fuel	157	159	246	N.A.	N.A.	
Lubricants	42	47	268	N.A.	N.A.	
Residual fuel	253	558	33	N.A.	N.A.	
Others	9	15	60	N.A.	N.A.	
Total imports	451	574	633	640	675	
a. v.	14.6	14.6	14.6	14.6	14.6	

<sup>a</sup> 1956-58 and 1959-60 Plan

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Table 23

Imports of Petroleum by Bulgaria, by Country of Origin a/  
1956-58 and 1959-60 Plan

Origin	Thousand Metric Tons				
	1956	1957	1958	1959	1960
<b>Sino-Soviet Bloc</b>					
USSR	154	281	365	N.A.	N.A.
Albania	1	7	31	N.A.	N.A.
Czechoslovakia	9	17	0	N.A.	N.A.
East Germany	17	17	0	N.A.	N.A.
Hungary	8	7	7	N.A.	N.A.
Poland	2	0	0	N.A.	N.A.
Romania	237	228	230	N.A.	N.A.
U.S.S.R. Total	428	557	633	640	675
<b>Free World</b>					
Austria	23	17	0	0	0
Total	23	17	0	0	0
Grand total	451	574	633	640	675

a.

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~~S-E-C-R-E-T~~

Table 24

Exports of Petroleum from Czechoslovakia, by Type of Product a/

Product	Thousands Metric Tons				
	1956	1957	1958	1959	1960
Gasoline	17	5	0	N.A.	N.A.
Kerosine	0	0	0	N.A.	N.A.
Diesel fuel	6	0	2	N.A.	N.A.
Lubricants	11	19	20	N.A.	N.A.
Residual fuel	32	81	50	N.A.	N.A.
Others	9	3	1	N.A.	N.A.
Total	75	108	55	50	50

a.

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Table 25

Exports of Petroleum from Czechoslovakia, by Country of Destination <sup>a/</sup>  
1956-58 and 1959-60 Plan

Destination	1956	1957	1958	1959	1960	Thousand Metric Tons	
						1956	1957
<b>Sino-Soviet Bloc</b>							
Bulgaria	9	17	0	0	N.A.	N.A.	
Hungary	1	1	1	1	N.A.	N.A.	
Total	10	18	1	0	0	0	
<b>Free World</b>							
Austria	17	34	46	46	N.A.	N.A.	
Belgium	57	97	0	0	N.A.	N.A.	
Switzerland	10	13	0	0	N.A.	N.A.	
West Germany	40	41	6	6	N.A.	N.A.	
Yugoslavia	01	21	1	1	N.A.	N.A.	
Others	00	11	1	1	N.A.	N.A.	
Total	65	90	24	24	50	50	
Grand total	75	108	22	22	50	50	
<i>a.</i>							

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Table 27

Imports of Petroleum by Czechoslovakia, by Country of Origin a/  
1956-58 and 1959-60 Plan

Origin	Thousand Metric Tons			
	1956	1957	1958	1959
<b>Sino-Soviet Bloc</b>				
USSR	368	951	1,132	N.A.
Albania	0	5	0	N.A.
Bulgaria	78	17	10	N.A.
East Germany	1	1	0	N.A.
Hungary	36	43	62	N.A.
Poland	0	13	0	N.A.
Romania	262	246	195	N.A.
Total	745	1,276	1,399	1,570
<b>Free World</b>				
China, P.R.	431	332	245	N.A.
Austria	0	1	1	N.A.
Others	0	0	0	N.A.
Total	431	333	246	250
<b>Grand total</b>	<u>1,176</u>	<u>1,609</u>	<u>1,645</u>	<u>1,820</u>
a.				

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Table 26

Imports of Petroleum by Czechoslovakia, by Type of Product a/

Type of Product	Thousands Metric Tons			
	1956	1957	1958	1960
Crude oil	775	1,235	1,377	N.A.
Gasoline	63	61	42	N.A.
Kerosine	68	40	23	N.A.
Diesel fuel	111	103	105	N.A.
Lubricants	3	2	2	N.A.
Residual fuel	151	115	92	N.A.
Others	5	53	4	N.A.
Total	1,176	1,609	1,645	1,820
				1,290

a.

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Table 28

Exports of Petroleum from East Germany, by Type of Product <sup>a/</sup>  
1956-58 and 1959-60 Plan

Product	1956	1957	1958	1959	1960
Gasoline	225	201	190	N.A.	N.A.
Kerosine	120	126	121	N.A.	N.A.
Diesel fuel	206	299	195	N.A.	N.A.
Lubricants	5	4	1	N.A.	N.A.
Residual fuel	24	47	10	N.A.	N.A.
Others	147	134	113	N.A.	N.A.
Total	727	811	630	458	409

a.

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Table 31

Imports of Petroleum by East Germany, by Country of Origin a/  
1956-58 and 1959-60 Plan

Origin	Thousand Metric Tons			
	1956	1957	1958	1959
<b>Sino-Soviet Bloc</b>				
USSR	459	831	978	N.A.
Albania	0	7	10	N.A.
Bulgaria	35	0	0	N.A.
Hungary	22	10	10	N.A.
Rumania	42	21	43	N.A.
Total	558	869	1,041	<u>1,350</u>
<b>Free World</b>				
Austria	429	300	252	250
Total	429	300	252	<u>250</u>
Grand total	<u>987</u>	<u>1,169</u>	<u>1,293</u>	<u>1,430</u> <u>1,600</u>

a.

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Table 32

Exports of Petroleum from Hungary, by Type of Product a/

1956-58 and 1959-60 Plan

Product	Thousand Metric Tons				
	1956	1957	1958	1959	1960
Crude oil	82	10	10	N.A.	N.A.
Gasoline	13	68	77	N.A.	N.A.
Kerosine	10	15	10	N.A.	N.A.
Diesel fuel	15	98	148	N.A.	N.A.
Lubricants	10	0	0	N.A.	N.A.
Residual fuel	61	8	49	N.A.	N.A.
Others	64	52	87	N.A.	N.A.
Total	255	251	381	400	420

a.

S-E-R-E-T

Table 33

Exports of Petroleum from Hungary, by Country of Destination a/  
1956-58 and 1959-60 Plan

Destination	Thousand Metric Tons				
	1956	1957	1958	1959	1960
<b>Sino-Soviet Bloc</b>					
USSR	28	34	0	N.A.	N.A.
Bulgaria	8	7	7	N.A.	N.A.
Czechoslovakia	36	43	62	N.A.	N.A.
East Germany	10	10	10	N.A.	N.A.
Poland	31	47	40	N.A.	N.A.
Total	<u>113</u>	<u>141</u>	<u>112</u>	<u>120</u>	<u>130</u>
<b>Free World</b>					
Austria	68	47	160	N.A.	N.A.
Switzerland	17	21	26	N.A.	N.A.
West Germany	53	40	74	N.A.	N.A.
Others	4	2	2	N.A.	N.A.
Total	<u>142</u>	<u>110</u>	<u>262</u>	<u>280</u>	<u>290</u>
Grand total	<u>255</u>	<u>251</u>	<u>381</u>	<u>400</u>	<u>420</u>

a.

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Table 34

Imports of Petroleum by Hungary, by Type of Product a/  
1956-58 and 1959-60 Plan

Product	Thousand Metric Tons			
	1956	1957	1958	1959
Crude oil	325	1,033	1,143	N.A.
Gasoline	36	28	10	N.A.
Kerosine	29	Negligible	0	N.A.
Diesel fuel	29	41	0	N.A.
Lubricants	4	1	1	N.A.
Residual fuel	114	146	57	N.A.
Others	1	1	1	N.A.
Total	538	1,250	1,212	1,280
				1,350

a.

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Table 35

Imports of Petroleum by Hungary, by Country of Origin a/  
1956-58 and 1959-60 Plan

Origin	1956	1957	1958	1959	1960	Thousands Metric Tons
<b>Sino-Soviet Bloc</b>						
USSR	31	695	794	N.A.	N.A.	
Albania	1	5	3	N.A.	N.A.	
Bulgaria	45	88	100	N.A.	N.A.	
Czechoslovakia	1	1	1	N.A.	N.A.	
East Germany	4	4	4	N.A.	N.A.	
Rumania	207	207	61	N.A.	N.A.	
Total	289	1,000	963	1,030	1,100	
<b>Free World</b>						
Austria	249	250	249	250	250	
Total	249	250	249	250	250	
Grand total	538	1,250	1,212	1,280	1,350	

a.

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Table 36

Exports of Petroleum from Poland, by Type of Product a/  
1956-58 and 1959-60 Plan

Product	<u>1956</u>	<u>1957</u>	<u>1958</u>	<u>1959</u>	<u>1960</u>	Thousand Metric Tons
Diesel fuel	0	13	5	N.A.	N.A.	
Lubricants	14	11	21	N.A.	N.A.	
Residual fuel	97	34	129	N.A.	N.A.	
Others	7	0	0	N.A.	N.A.	
Total	<u>118</u>	<u>58</u>	<u>155</u>	<u>150</u>	<u>150</u>	

a.

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Table 37

Exports of Petroleum from Poland, by Country of Destination a/  
1956-58 and 1959-60 Plan

Destination	1956	1957	1958	1959	Thousand Metric Tons	
					1960	
<b>Sino-Soviet Bloc</b>						
Bulgaria	2	0	0	N.A.	N.A.	
Czechoslovakia	0	13	0	N.A.	N.A.	
Communist China	14	11	20	N.A.	N.A.	
Total	<u>16</u>	<u>24</u>	<u>20</u>	<u>N.A.</u>	<u>N.A.</u>	
<b>Free World</b>						
Austria	0	5	26	N.A.	N.A.	
Belgium	5	0	0	N.A.	N.A.	
Italy	2	0	0	N.A.	N.A.	
Sweden	84	25	75	N.A.	N.A.	
West Germany	11	4	34	N.A.	N.A.	
Total	<u>102</u>	<u>34</u>	<u>135</u>	<u>N.A.</u>	<u>N.A.</u>	
Grand total	<u>118</u>	<u>58</u>	<u>155</u>	<u>150</u>	<u>150</u>	
a.						

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Table 38

Imports of Petroleum by Poland, by Type of Product<sup>a/</sup>  
1956-58 and 1959-60 Plan

Product	Thousand Metric Tons			
	1956	1957	1958	1960
Crude oil	537	633	599	N.A.
Gasoline	417	513	578	N.A.
Kerosine	66	62	84	N.A.
Diesel fuel	356	426	402	N.A.
Lubricants	46	67	65	N.A.
Residual fuel	50	39	92	N.A.
Others	17	27	41	N.A.
Total	<u>1,489</u>	<u>1,767</u>	<u>1,861</u>	<u>2,000</u>

a.

Table 39

Imports of Petroleum by Poland, by Country of Origin a/  
1956-58, and 1959-60 Plan

Origin	1956	1957	1958	Thousands Metric Tons	
				1959	1960
<b>Sino-Soviet Bloc</b>					
USSR	198	473	533	N.A.	N.A.
Albania	52	50	84	N.A.	N.A.
Bulgaria	24	7	0	N.A.	N.A.
East Germany	181	107	80	N.A.	N.A.
Hungary	31	47	40	N.A.	N.A.
Romania	551	758	853	N.A.	N.A.
Total	1,037	1,442	1,590	1,680	1,750
<b>Free World</b>					
Austria	441	325	269	250	250
West Germany	11	0	2	0	0
Total	452	325	271	250	250
Grand total	1,489	1,767	1,861	1,930	2,000

a.

Table 40

Exports of Petroleum from Rumania, by Type of Product <sup>a/</sup>  
 1956-58 and 1959-60 Plan

Product	1956	1957	1958	1959	Thousands Metric Tons	
					1960	
Crude oil	28	66	70	N.A.	N.A.	
Gasoline	2,449	2,347	2,327	N.A.	N.A.	
Kerosine	1,094	756	929	N.A.	N.A.	
Diesel fuel	1,036	849	1,368	N.A.	N.A.	
Lubricants	122	132	120	N.A.	N.A.	
Residual fuel	1,285	646	900	N.A.	N.A.	
Others	46	31	52	N.A.	N.A.	
Total	6,060	4,827	5,766	6,000	6,300	

a.

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Table 41

Exports of Petroleum from Rumania, by Country of Destination a/  
1956-58 and 1959-60 Plan

Destination	1956	1957	1958	1959	1960
Sino-Soviet Bloc					
USSR	3,003	1,827	2,000	N.A.	N.A.
Albania	46	23	21	N.A.	N.A.
Bulgaria	237	228	230	N.A.	N.A.
Czechoslovakia	262	246	195	N.A.	N.A.
East Germany	42	21	43	N.A.	N.A.
Hungary	207	207	61	N.A.	N.A.
Poland	551	758	853	N.A.	N.A.
Communist China	54	30	200	N.A.	N.A.
North Vietnam	22	35	29	N.A.	N.A.
Total	<u>4,424</u>	<u>3,375</u>	<u>3,632</u>	<u>4,000</u>	<u>4,200</u>
Free World					
Free Europe	1,179	1,072	1,502	N.A.	N.A.
Middle East and Africa	457	380	481	N.A.	N.A.
Latin America	0	0	141	N.A.	N.A.
Total	<u>1,636</u>	<u>1,452</u>	<u>2,124</u>	<u>2,000</u>	<u>2,100</u>
Grand total	<u>6,060</u>	<u>4,827</u>	<u>5,766</u>	<u>6,000</u>	<u>6,300</u>

a.

Table 42

Imports of Petroleum by Rumania, by Type of Product a/  
1956-58 and 1959-60 Plan

Product	1956	1957	1958	1959	1960
Lubricants	4	1	0	N.A.	N.A.
Asphalt	0	0	30	N.A.	N.A.
Total	<u>4</u>	<u>1</u>	<u>30</u>	<u>N.A.</u>	<u>N.A.</u>

a.

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Table 43

Imports of Petroleum by Rumania, by Country of Origin a/  
1956-58 and 1959-60 Plan

Origin	Thousand Metric Tons				
	1956	1957	1958	1959	1960
USSR	4	1	0	N.A.	N.A.
Albania	0	0	30	N.A.	N.A.
Total	4	1	30	N.A.	N.A.

a.

Table 44

Imports of Petroleum by Communist China, by Type of Product a/  
1956-58 and 1959-60 Plan

Product	Thousand Metric Tons				
	1956	1957	1958	1959	1960
Crude oil	397	381	360	N.A.	N.A.
Gasoline	649	577	705	N.A.	N.A.
Kerosine	275	373	519	N.A.	N.A.
Diesel fuel	377	396	696	N.A.	N.A.
Lubricants	100	117	140	N.A.	N.A.
Others	2	0	0	N.A.	N.A.
Total	1,800	1,844	2,420	2,700	3,200

a.

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Table 45

Imports of Petroleum by Communist China, by Country of Origin a/  
1956-58 and 1959-60 Plan

<u>Origin</u>	<u>1956</u>	<u>1957</u>	<u>1958</u>	<u>1959</u>	<u>1960</u>
USSR	1,732	1,803	2,200	N.A.	N.A.
Poland	14	11	20	N.A.	N.A.
Rumania	54	30	200	N.A.	N.A.
Total	<u>1,800</u>	<u>1,844</u>	<u>2,420</u>	<u>2,700</u>	<u>3,200</u>

a.

Table 46

Imports of Petroleum by North Vietnam  
by Tanker from Rumania and the USSR a/  
1956-58 and 1959-60 Plan

<u>Product</u>	<u>1956</u>	<u>1957</u>	<u>1958</u>	<u>1959</u>	<u>1960</u>
Gasoline	7	19	24	N.A.	N.A.
Kerosine	11	23	5	N.A.	N.A.
Diesel fuel	4	11	0	N.A.	N.A.
Total	<u>22</u>	<u>53</u>	<u>29</u>	<u>30</u>	<u>30</u>

a.

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APPENDIX B

SOURCE REFERENCES

Evaluations, following the classification entry and designated "Eval.," have the following significance:

<u>Source</u>	<u>Information</u>	<u>Information</u>
Doc. - Documentary		1 - Confirmed by other sources
A - Completely reliable		2 - Probably true
B - Usually reliable		3 - Possibly true
C - Fairly reliable		4 - Doubtful
D - Not usually reliable		5 - Probably false
E - Not reliable		6 - Cannot be judged
F - Cannot be judged		

Evaluations not otherwise designated are those appearing on the cited document; those designated "RR" are by the author of this memorandum. No "RR" evaluation is given when the author agrees with the evaluation on the cited document.

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Ibid., no 12, Warsaw, 1958. U. Eval. Doc.  
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